

(ODDS ONLY)

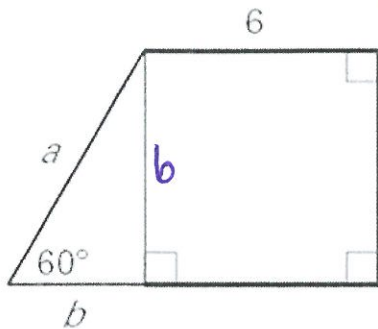
Name: _____

Period: _____ Date: _____

Failure to show all work and write in complete sentences will result in LaSalle!

***REMEMBER:** Hyp = $2 \cdot SL$ (short leg) LL = $SL \cdot \sqrt{3}$ (LL = Long Leg)

1) Find the value of a and b.



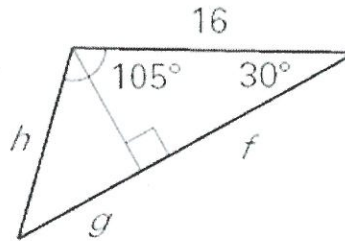
B: $LL = SL \cdot \sqrt{3}$
 $b = SL \cdot \sqrt{3}$

(SL) $\rightarrow b =$ _____

A: Hyp = $2 \cdot SL$
 $A = 2 \cdot (\quad)$

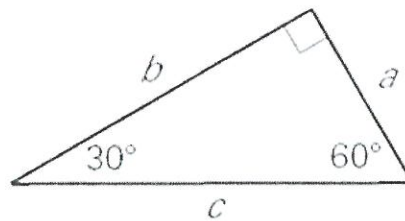
$a =$ _____

2) Find the value of f, g and h.



3) Use the figure to the right to complete the table below.

a	9			11	
b		9	$5\sqrt{3}$		
c					16

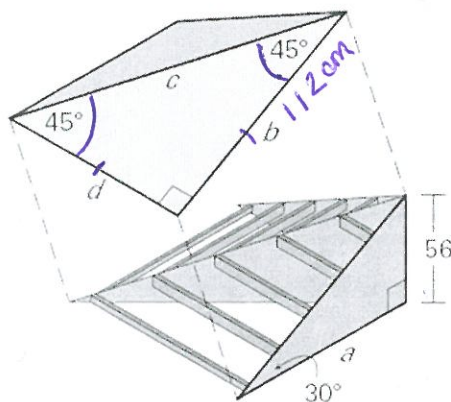


4) The side lengths of a triangle are given. Determine whether it is a 45°-45°-90° triangle, a 30°-60°-90° triangle, or neither.

a. 5, 10, $5\sqrt{3}$

b. 6, 6, $6\sqrt{2}$

5) You are using wood to build a pyramid-shaped skateboard ramp. You want each ramp surface to incline at an angle of 30° and the maximum height to be 56 centimeters as shown.



Use the relationships shown in the diagram to determine the approximate lengths of

a: $LL = SL \cdot \sqrt{3}$
 $a = (56) \cdot \sqrt{3} =$ _____

c: $hyp = l \cdot \sqrt{2}$
 $c = (112) \cdot \sqrt{2} =$ _____

d: $hyp = l \cdot \sqrt{2}$
 $(c) = d \cdot \sqrt{2}$